

Abstract

A semiconductor integrated circuit is provided, using a one-port memory cell, capable of smoothly performing a data write/read operation in accordance with an instruction from a CPU and a data read operation to display an image on a display panel. The semiconductor integrated circuit includes a memory cell having a port through which data is input to and output from a set of bit lines, a write/read circuit connected with the port via the set of bit lines, a read circuit connected with the port via the set of bit lines, a CPU-system control circuit that controls the write/read circuit so that a data write or read operation based on a write request or read request from a CPU is performed for a first period, and a display-system control circuit that controls the read circuit so that data to be supplied to a display panel is read for a second period which does not overlap the first period.